C. Goodrich,

Hinge.

No. 67,747. Patented Aug. 13, 1867.

Fig. 1.

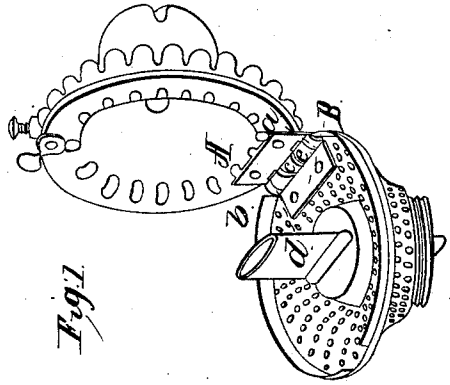


Fig. 4.

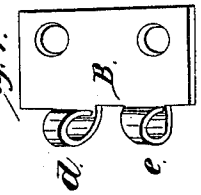


Fig. 3.

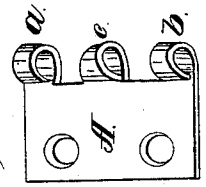
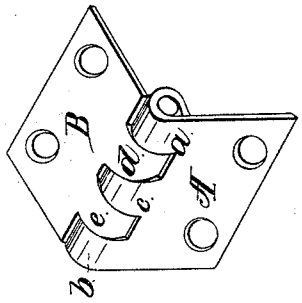


Fig. 2.



Witnesses:
Charles E. Thompson.
E. W. Baldwin.

Inventor:
Chauncey Goodrich,
by R. Fitzgerald, Attorney.

AM. PHOTO-LITHO. CO. N.Y. (OSBORNE'S PROCESS.)

United States Patent Office.

CHAUNCEY GOODRICH, OF PLAINVILLE, CONNECTICUT.

Letters Patent No. 67,747, *dated August* 13, 1867.

IMPROVEMENT IN BUTT-HINGES.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it know that I, CHAUNCEY GOODRICH, of Plainville, in the county of Hartford, and State of Connecticut, have invented a new and useful Improvement in Butt-Hinges for lamp-tops, &c.; and I do hereby declare that the following is a full, clear, and exact description of the construction, character, and operation of the same, reference being had to the accompanying drawings, which make part of this specification, in which—

Figure 1 is a perspective view of a lamp-top, with the two parts hinged together by one of my butts or hinges, showing the bevelled character or shape of the central parts of the eye or socket of the butt.

Figure 2 is a perspective view of the outer side of a butt, showing the close connection of the bevelled parts of the eye or socket, as when the swinging of the hinge is stopped by the operation of the bevelled parts.

Figure 3 is a perspective view of one of the leaves of the butt, showing three parts of the eye or socket, with the outer two cut parallel, and the middle one bevelled both ways, toward the centre.

Figure 4 is a perspective view of the other leaf of the butt, showing two parts of the eye or socket, each cut parallel on the outer side or end, and each bevelled outward on the inner end, to match the middle one in fig. 3.

My improvement consists in making the joint of the butt in such a manner that, while I cut the outer parts of the eye or socket to form the joint parallel in the usual way, to hold the two leaves in their proper relative positions, I cut the central parts on a bevel, so that the middle part or piece of the eye or socket will work loosely between the parts on the other leaf, by reason of double bevels, except at the point at which the swinging is to be stopped, where the bevels bind each other for that purpose, which may be at any desired angle.

I make one part or leaf A of the butt or hinge substantially in the form shown in fig. 3, and at A, figs. 1 and 2, (that is, with three parts of the eye or socket of the butt,) by cutting the two parts at the ends *a* and *b*, parallel to the ends of the leaf, in the usual way of making butts with the eye or socket in five parts. But I make the middle part *c* bevelled both ways toward the longitudinal centre of the joint, so as to give it a wedge shape, to fit the other leaf, so that it will swing freely, being guided by the parallel top and bottom parts, until it arrives at the desired point, say at an angle of ninety degrees, more or less, when the bevelled surfaces or inclined planes will press upon the other bevels, and stop the swinging entirely, but not too abruptly.

I make the other part or leaf B of the butt with two parts or portions *d* and *e* of the eye or socket as shown in fig. 4, and at B, figs. 1 and 2, with the outer ends of the two eye parts *d* and *e* cut parallel with the ends of the leaf, in the usual way, but the two inner ends I bevel outward, to fit them to receive and work upon the bevelled part *c*, fig. 3, all as represented in figs. 1 and 2, where the complete butt is shown as it will appear in operation; that is, when the hinge is open, the bevelled or central parts will appear open or loose in the joints on the inner side, as in fig. 1, but close, even to stopping, on the outer side, as shown in fig. 2.

These bevels may be so located that they will stop the swing of the hinge at any desired point; and these butts are suitable for all purposes where a stop-butt is desirable, as they may be made of any kind of metal, either cast or wrought, and of any size or strength to suit the use intended.

What I claim as my invention, and desired to secure by Letters Patent, is—

A stop-butt, in which I make or cut the central parts or portions of the eye or socket bevelled or inclined, so as to cause the stopping, at the desired angle, by the binding of the inclined planes or bevelled surfaces, while I cut or make the portions or parts at the ends parallel to the ends of the leaves, to keep the two leaves in their proper relative positions, when the whole is constructed and fitted to operate substantially as herein described and set forth.

CHAUNCEY GOODRICH.

Witnesses:

J. H. WELCH,

G. W. HENDRICK.